

Module 1 Introduction to MySQL

- Instructor Introduction
- Course Goals & Coverage
- About SQL
- About MySQL
- History & Features of MSSQL TimeLine
- What Gartner Says about MYSQL in 2020 ?
- Quiz Self-Check

Modue 2 MySQL Server and Client

- Installation of the MySQL server on Windows
- Setting the root Password
- Starting and stopping the MySQL server
- Connect to the mysql client -MySQL Workbench
- Quiz Self-Check

Module 3 Database Basics

- Basics of Relational Databases
- Entities and Relationships
- Relationship Categories
- SQL data definition language
- SQL data manipulation language
- Quiz Self-check

Module 4 Creating Databases and Tables (DDL)

- Creating a Database
- Using the Sample Data and Schema
- Creating a Table
- Copy Table Structure
- Column Options
- On Keys and Constraints
- Quiz Self-Check

Module 5 Data Types

- Data Types as Part of Database Design
- Numeric Data Types
- Temporal Data Types
- String Data Types
- Character Set and Collation Support
- Data Type Considerations
- The Meaning of NULL and Uses
- Quiz Self-Check

Module 6 Modifying Databases and Tables(DDL)

- Deleting databases and tables
- Creating a New Table Using an Existing Table
- Confirming the Creation of a New Table
- Copying an Existing Table Structure
- Creating a Temporary Table
- Adding, removing and modifying table columns
- Adding, removing and modifying Indexes
- Quiz Self-check

Module 7 Modifying Table Data(DML)

- Manipulating Data
- Inserting records
- Inserting Multiple Rows
- Inserting Hierarchical Rows
- Replacing existing records
- Updating existing Single records
- Updating existing Multiple Rows
- Using Subqueries in Updates
- Deleting records
- Using Subqueries in Deletes
- Multistatement Transactions
- Quiz Self-check

Module 8 Querying Table Data(DQL)

- The SELECT Statement
- Filter Rows and Columns using the Where Clause
- Operators in Select Statement
- Ordering Data
- Aggregate Functions
- Grouping Data
- Use Special Operators Between /Like/Null
- The REGEXP Operator
- Quiz-Self-check

Module 9 SQL Data Type Functions in MYSQL

- Functions in MySQL Expressions
- String Functions
- Date and time functions
- Numeric Functions
- Spaces in Function Names
- Quiz Self Check

Module 10 Joining Tables

- Querying Multiple Tables
- Joining Tables with SELECT
- Inner Joins
- Outer Joins
- Table Name Aliases
- Quiz Self-Check

Module 11 Working with Subqueries

- Uses of Subqueries
- Operators in Subqueries
- Subqueries (Single Value)
- Subqueries (Multiple Values)
- Correlated Subqueries
- Subqueries in DMLS
- Quiz Self Check

Module 12 Import & Exports Tables/Data

- Import/Export Objects to Excel,CSV
- Import/Export Objects to MSACCESS/Oracle

Module 13 Conclusion

- Course Goals
- MySQL Curriculum Path
- MySQL Resources
- Evaluation
- Final Q&A
- Reviews & Feedback
